

Atlona 4 by 4 HDMI Matrix Switcher

AT-HD-V44M



User Manual

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Introduction

The Atlona 4 by 4 Matrix Switcher with 3D support is designed to make switching between 4 sources and 4 displays as easy as possible. With IR, RS-232, and front panel control, use the matrix the way you need. Supporting 1080p or 1920x1200, and all Lossy and Lossless audio formats (including Dolby TrueHD and DTS-HD Master Audio), the AT-HD-V44M ensures the best experience possible.

Package Contents

- 1 x AT-HD-V44M
- 1 x 12V DC power adapter
- 1 x 19 inch ear mount pair
- 1 x IR remote control
- 1 x IR extender connectors
- 1 x IR receiver module
- 1 x RS-232 package (RS-232 DVD & RS-232 Cable)



Features

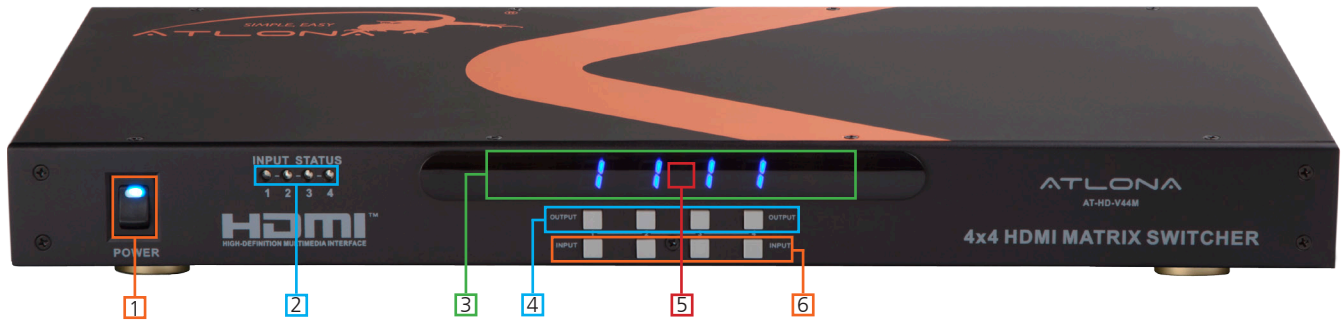
- Switches HDMI Video signal with Audio between 4 sources and 4 displays
- Matrix Switch: each input can be directed to any or all outputs at the same time
- Quick and easy installation
- HDMI digital video/audio format, DVI format, and HDCP compliant
- Supports resolutions up to 1920x1200 and 1080p
- Full 3D support
- Supports all Lossy and Lossless formats (including Dolby TrueHD and DTS-HD Master Audio)
- 3 control interfaces: IR, RS-232, and front panel
- Supports IR extenders with distances up to 300M Maximum
- Input LEDs that auto scan for incoming signals and illuminate when an input is received.

Specifications

Bandwidth frequency	6.75 Gbps
Input Ports	4 HDMI
Output Ports	4 HDMI 1 RS-232 1 IR 3.5mm
Resolution outputs	Video: up to 1080p Vesa: up to 1920x1200
Dimensions (HxWxD)	1.9 x 17.34 x 8.5 (inch) or 48.26 x 440.44 x 215.9 (mm)
Weight	9.5lbs or 4.31kg

Panel Description

Front Panel



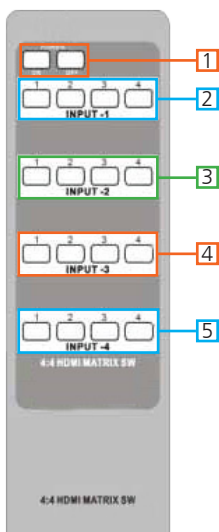
1. Power Switch: LED will illuminate blue when on. Press switch to turn switcher on and off.
2. LED Status Lights: LEDs will illuminate when a device is connected to the corresponding input.
3. Output Status Display: Will display the current input going to the corresponding Output.
4. Output Selection Button: Select which outputs you will be using with your input selection
5. IR Sensor: Picks up IR signals from the included IR remote control.
6. Input Selection Button: Press to select the input of the previously chosen Outputs.

Back Panel



1. HDMI Output ports: Connect HDMI or DVI (with adaptor) displays to these ports
2. HDMI Input ports: Connect HDMI or DVI (with adaptor) sources to these ports
3. RS-232 Port: Connect 9pin RS-232 cable from this port to a 9pin RS-232 port on a computer
4. 3.5mm IR Extender port: Connect IR extender cable to this port
5. 12V DC port: Connect included 12V DC adaptor here

Remote Control

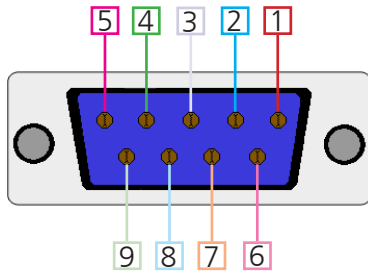


1. Power On and Off
2. Output 1 - Press 1 through 4 to select the corresponding input
3. Output 2 - Select 1 through 4 to choose the input
4. Output 3 - Choose button 1 through 4 to select the input
5. Output 4 - Press 1 through 4 to select an input

RS-232

Connection

RS-232 is connected through a 9-pin female D connector. The pins will have functions associated with them, some will be unassigned.



No.	Pin	Function
1	---	Not used
2	Tx	Transmit
3	Rx	Receive
4	---	Not used
5	Gnd	Ground
6	---	Not used
7	---	Not used
8	---	Not used
9	---	Not used

Baud Rate: 9600bps Data Bit: 8bits Parity: None Stop Bit: 1bit

Command

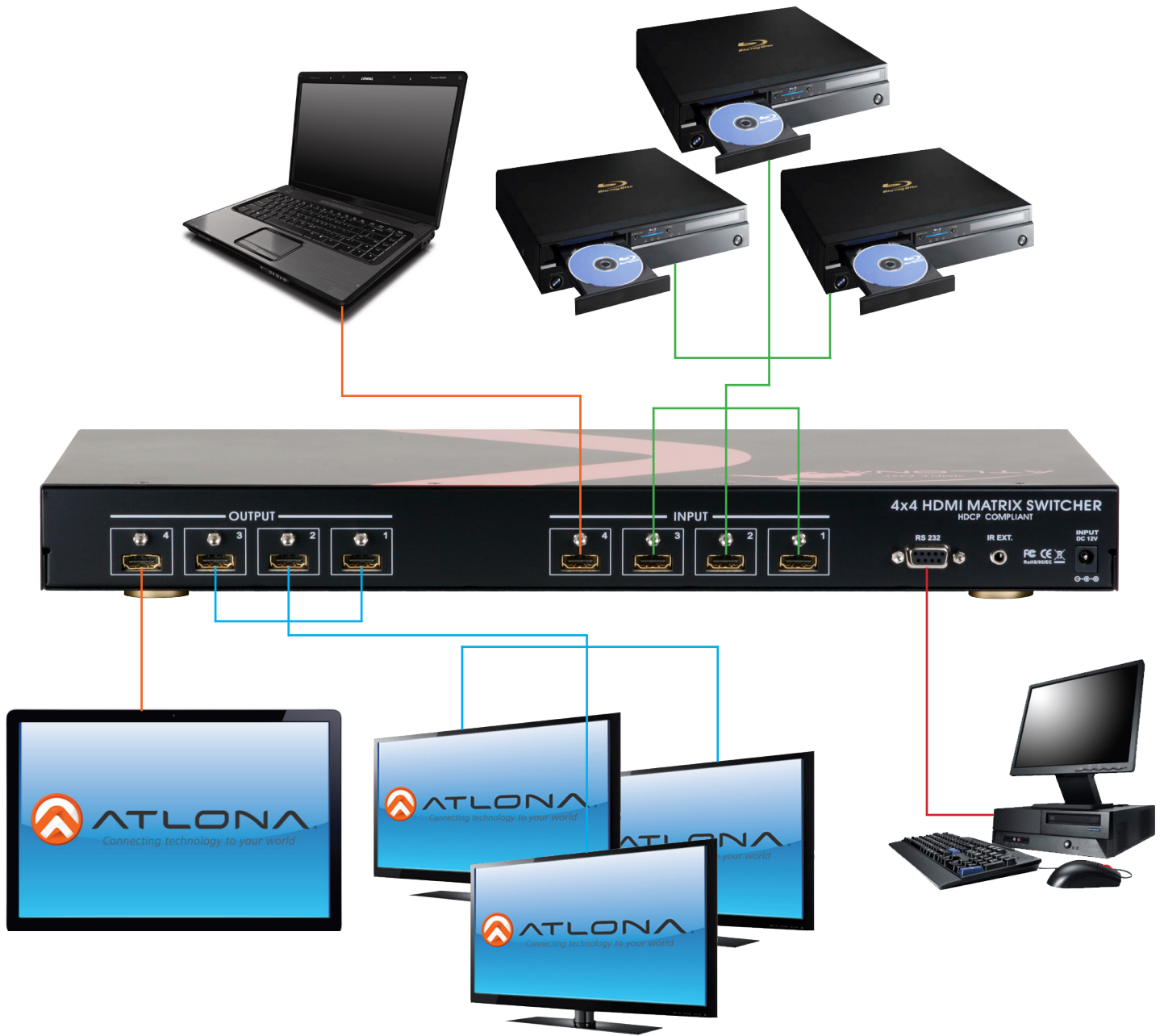
The command codes are very sensitive, do not change capitalization, spacing, or lettering.

Command	Feedback	Description
PWON	PWON	Power on
PWOFF	PWOFF	Power off
All#	All#	Resets all inputs to corresponding outputs (in3 to out3)
x1\$	x1\$	Turns off output channel (to turn off output 3 = x3\$)
x1AVx2	x1AVx2	Switch input to output (input 3 to output 5 = x3AVx5)
x1AVx2,x3,x4	x1AVx2,x3,x4	Switch input to multiple outputs (input 3 = x3AVx1,x2)
Statusx1	x7AVx1	Shows what input is connected to selected output
Status	x1AVx1, x2AVx2, x3AVx4,	Displays which inputs are currently connected to which outputs
Save[Y]	Save2	Saves settings for future use, saves vary from 0 to 9
Recall[Y]	Recall2	Pulls up saved settings for the number you selected
Clear[Y]	Clear2	Erases the save for the number you selected
Mreset	Mreset	Sets matrix back to the default settings

Each command or feedback is terminated with a carriage return.

Note: If the command fails or is incorrect the feedback should be "Command FAILED"

Connection and Installation



Safety Information

Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-HD-V44M. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

Warranty

Limited Warranty

Atlona Technologies warrants that (a) its products (AT-HD-V44M) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.

Atlona Product Registration

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: <http://www.atlona.com/registration>